Author index

Abeyasekera, G. 481
Adler, R. 19
Agardh, C.-D. 215
Åkerström, G. 373
Albers, J.J. 171
Alberti, K.G.M.M. 397
Alexopoulos, J. 283
Alinder, G. 215
Andreoletti, M. 261
Angelin, B. 99
Arlien-Søborg, P. 151
Arroyo, V. 271
Axelson, O. 109

Barry, D.I. 201
Barth, C.A. 255
Bast, E.J.E.G. 209
Batavier, P. 65
Bekker, C. 351
Bellavite, P. 363
Ben-Bassat, H. 57
Berge-Henegouwen, G.P. van 433
Berger, M. 141
Bernheim, J. 13
Bertrand, D. 379
Bianchi, P. 261
Bierman, E.L. 171
Bircher, J. 475
Bjorntorp, P. 5
Bloom, S.R. 221
Boers, G.H.J. 405
Bohadana, A. 379
Bolwig, T.G. 201
Bonta, I.L. 227
Borregard, N. 243
Bozzani, A. 261
Braendstrup, O. 201
Brandslund, I. 179
Bron, A.J. 231
Brown, W.B. 391
Brussaard, J.H. 115
Bukhave, K. 351
Burgos, H. 289
Bylock, A. 297
Bylund-Fallenius, A-C. 5

Cangiano, C. 79
Campbell, S. 481
Cardelli-Cangiano, P. 87
Cady, E.B. 469
Cascino, A. 87
Casonato, A. 135
Casson, I.F. 41
Cederholm-Williams, S.A. 231
Chait, A. 171
Chajek-Shaul, T. 419
Christensen, M.S. 267
Christofides, N.D. 221
Cockerill, E.M. 87
Coleman, R. 383
Collin, J. 249
Corrall, J.M. 33
Cortese, C. 79
Covell, J.W. 331
Crilly, R.G. 41
Cross, A.R. 243
Cryer, P.E. 1
Cummins, R. 283
Cüppers, H.J. 141

Davidson, N. McD. 33
Davies, A.E.J. 391
Dawson, M.J. 429
Debbas, N.M.G. 123
Deckelbaum, R. 419
De Groot, G.H. 65
De Groot, P. 405
De Jonge, M. 65
Della Bianca, V. 363
Demaille, J.G. 123
Denton, T.G. 249
Derancourt, J. 123
Deulofeu, R. 271
Dewar, A. 33
Dive, Ch. 185
Dornan, T.L. 231
Døssing, M. 151
Drake-Holland, A.J. 369
Dri, P. 363
Du Cailar, C. 123
Dunning, A.J. 325

Edwards, R.H.T. 279, 411, 429, 465, 469
Egger, H.-J. 91
Einarsson, K. 99
Eisenberg, S. 419
Eliakim, M. 19
Elias, E. 383
Engler, R.L. 331
Eysson, H.J. 185

Fabris, F. 135
Fåhraeus, L. 447
Fahrenkrug, J. 321
Farber, M.O. 87
Feldmann, U. 357
Fiasse, R. 185
Fogh-Andersen, N. 267
Francis, R.M. 391
French, E.B. 33
Frier, B.M. 33
Fröhlick, M. 301
Fussi, F. 135

Gamiel, H. 57
Garay, R.P. 311
Gardener, J.E. 469
Gast, G.C. de 209
Gay, I. 57
Gaya, J. 271
Gerstenberg, T. 321
Gindrod, S. 465
Girolami, A. 135
Gmelig Meyling, F.H.J. 209
Gonsalves, M.D. 405
Gonzalez-Santos, P. 237
Gordon, R. 429
Graham, D.I. 201
Griffiths, J.R. 429
Grimby, G. 5
Grunnet, N. 179

Hannaert, P. 311
Hannart, B. 379
Hannibal, S. 455
Hautvast, J.G.A.J. 115
Havekes, L. 301
Henning, H.V. 91
Henze, K. 171
Herlin, P. 215
Herlin, T. 243
Hess, T. 159
Heyburn, P.J. 41
Hickey, A. 383
Hillbom, M.E. 45
Hillyard, C.J. 481
Hirayama, C. 129
Hofmann, A.F. 433
Holm, J. 5
Holmin, T. 215
Hultberg, B. 215

Ihme, A. 357
Iqbal, S. 383
Isager, H. 179

James, J.H. 87
Jansen, H. 301
Janus, E.D. 79
Jespersen, J. 347
Johnsson, R. 45
Johnston, D.G. 397
Jones, O.T.G. 243
Juul Holst, J. 107

Kaste, M. 45
Katan, M.B. 115
Knudsen, B.B. 489
Knutton, S. 383
Korzets, Z. 13
Koster, R.W. 325
Koutsikos, S. 461
Kramer, S. 283
Krieg, T. 357
Krotkiewski, M. 5
Kruis, W. 165
Kruse, K. 357
Kurppa, K. 113

Ladas, I. 461
Ladas, S. 461
Lane, G. 481
La Rivière, A. 325
Larsson-Cohn, U. 447
Lazanas, M. 461
Leijd, B. 99
Lemmen, C. 255
Lens, J. 65
Leonard, J.P. 185
Levi, A.J. 49
Levy, Y. 79
Lewis, B. 79
Linden, H.J. van der 209
Link, J. 331
Ljunghall, S. 373
Lokhorst, H.M. 209
Lugwig-Köhn, H. 91
Lundquist, F. 183
Lyberatos, C. 461

MacIntyre, I. 481
McNair, P. 267
Madsbad, S. 267
Madsen, P.E.R. 351
Mandroukas, K. 5
Manfredi, F. 87
Mann, K. 165
Manthorpe, T. 321
Marcucci, F. 261
Martin, F.C. 49
Matthaei, D. 91
Mathisen, Ø. 193
Maury, C.P.J. 73
Meischer, G. 439
Meunier, P. 25
Micheli, H. 141
Miller, N.E. 79
Milling Petersen, L. 151
Mitchell, A. 249
Müller, P.K. 357
Müller, W.A. 141
Mussini, E. 261

Nattrass, M. 397
Nazaret, C. 311
Noble, M.I.M. 369
Nordin, B.E.C. 391

Olivecrona, T. 419
Opolon, P. 3
Ottesen, B. 321
Ouwenijk, R.J.T. 227

Pagano Mirani-Oostdijk, C. 301
Palikaris, G. 461
Paietta, E. 339
Palmér, M. 373
Paumgartner, G. 439
Phang, K-G. 481
Peacock, M. 41, 399
Pedersen, M. 489
Pepys, M.B. 231
Pérez-Ayuso, R.M. 271
Perret, B-P. 419
Peslin, R. 379
Peters, T.J. 49
Planas, R. 271
Popovtzer, M.M. 19
Pouleur, H. 331
Preisig, R. 439
Price, M. 311
Printz, M.P. 331
Puech, P. 123

Ræder, M. 193
Randi, M. 135
Ranek, L. 151
Rao, S.N. 79
Rask-Madsen, J. 351
Rathaus, M. 13
Raunio, P. 73
Rees, W.D.W. 221
Reiner, J. 91
Reinders Folmer, S.C.C. 325
Renold, A.E. 141
Rhymes, I.L. 231
Riesen, W. 159
Rimola, A. 271
Risberg, B. 297
Risteli, L. 357

Risteli, J. 357
Rivera, F. 271
Rizza, C.R. 231
Rodés, J. 271
Roberts, L.R. 87
Rosario, E. 237
Round, J.M. 411
Rune, S.J. 455

Sassine, A. 123
Schalm, S.W. 65
Schicht, I. 65
Scholtysik, G. 91
Schuurman, H.J. 209
Schwarzmeier, J.D. 339
Segal, A.W. 243
Serra, M.C. 363
Sharpe, G.R. 221
Slavin, G. 49
Smith, M.R. 135
Spiteller, G. 91
Stenberg, B. 297
Stewart, A. 397
Stevenson, J.C. 481
Stokes, M. 411
Stolz, E. 227
Storer, J.H. 391
Strandgaard, S. 201
Strate, M. 179
Stucki, P. 159
Svehag, S-E. 179
Svendsen, U.G. 201
Sziedat, A. 91

Tarssanen, L. 45
Taylor, G.A. 41
Teisner, B. 179
Teppo, A-M. 73
Terpstra, J.L. 65, 301
Tofts, P. 465
Townsend, P.T. 481
Tur-Kaspa, R. 19
Turnberg, L.A. 221
Turner, P.R. 79
Turner, R.C. 231

Ulrichsen, H. 321

Vainio, H. 113
Valerius, N.H. 243, 489
Van Aken, W.G. 405
Van Gent, C.M. 301
Van Mourik, J.A. 405
Velio, P. 261
Viljoen, D.J. 283
Vincent, J.E. 227
Visentin, L. 135
Vlodavsky, I. 57

Wagner, G. 321
Wallentin, L. 447
Wang, P. 179
Webber, R.G. 33
Whitehead, M.I. 481
Wide, L. 373
Wiesel, J.M. 57
Willems, C. 405
Wilson, J.H.P. 227
Wijngaards, G. 347
Wolfram, G. 255
Wright, R. 397
Wyss, T. 141

Yamada, S. 129
Young, A. 411
Young, O. 481

Zeng, J.Z. 475
Zijlstra, F.J. 227
Zimmermann-Telschow, H. 141
Zöllner, N. 255
Zuccato, E. 261

Subject index

Alcoholic liver disease, hormone and metabolite profiles 397
Alcoholism, acetaldehyde and aldehyde dehydrogenases 183
Amiodarone therapy, long-term cardiac and plasma drug levels 123
Angiogenic and growth factors in human amnio-chorion and placenta 289
Bile acid metabolism, hypothyroid subjects, substitution therapy 99
Bile acids, portal-systemic spill-over, mechanism study using ursodeoxycholic 439
Bile acids, systemic spill-over 433
C8 deficiency, two molecular forms of C8 and their concentrations 179
Calcium malabsorption in the elderly, effect of treatment with oral 25-hydroxyvitamin D_3 391
Calcium-regulating hormones, regulation of, exogenous sex steroids in early menopause 481
Cholesterol distribution during lipolysis of VLDL, role for blood and heart cells 419
Cimetidine, lack of inhibition of clomethiazole metabolism 475
Cirrhosis, sympathetic nervous activity, renin-angiotensis system, renal excretion of prostaglandin E_2 271
Clinical scientist, the making of 279
Crohn's disease, ileal resection, faecal bile acid analysis and intestinal absorption 185
Diabetes mellitus, decreased serum concentration of ionized calcium 267
Diabetic retinopathy, plasma haemostatic factors 231
Dietary fat, apolipoprotein B kinetics 79
Dietary fat, faecal excretion of bile acids and neutral steroids 115
Digitoxin intoxication, thrombocytopenia, reversal by digoxin-specific antibodies 159
Duodenal bulb pH 455
Duodenopancreatectomy, amino acids, lipoproteins, effect of glucagon 141
Ehlers-Danlos syndrome type VI, biochemical characterization of varients 357
Erythrocyte uroporphyrinogen-1-synthase activity in β-thalassaemic patients 461
Ethanol, blood viscocity, erythrocyte flexibility 45
Excitation-contraction coupling of the heart 369
Gastric ulcers, local fibrinolytic activity and its structural basis 297
Gastrointestinal tract (upper), effects of opiate agonist and antagonist 221
Glucagon, amino acid metabolism role 107
Glucagon, effects of, amino acids and lipoproteins in duodenopancreatectomized patients 141
Granulomatous disease, x-linked chronic, normal nitroblue tetrazolium slide test and cytochrome b 243
Heparins, human platelet interaction 135
Hepatectomy, influence on cerebral energy state, brain ammonia-related amino acids and plasma amino acids 215
Hepatic bicarbonate secretion and bile acid independent bile secretion, mechanism of 193
Hepatic failure, fulminant, extracorporeal assist 3
Hepatic insufficiency, acute, large-pore membrane haemodialysis, cross-dialysis 65
Homocystinuria, endothelial cell dysfunction 405
Hydrocortisone, decreased internalization of low density lipoprotein in fibroblasts and arterial smooth muscle 171
Hydroxyproline-containing peptides in serum, clinical significance, hyproprotein 129
Hyperparathyroidism, primary, diabetes mellitus, glucose tolerance and insulin response to glucose 373
Hypertension, essential, abnormal Na^+, K^+ cotransport function 311
Hypertension, essential, urinary excretion of prostaglandins E_2, $F_{2\alpha}$ 13
Hypoglycaemia, acute, peripheral blood cell changes 33
Hypoglycaemia, glucose counterregulation, cardiovascular responses and immunoregulation 1
Hypotension, diazoxide-induced, effect on cerebral blood flow 201
Hypotension, induced, effects on breathing pattern in halothane-anaesthetized man 379
Immune function during ageing, serological abnormalities and cellular immune status 209
Inflammatory bowel disease, chorionic gonadotropin and alpha chain of glycoprotein hormones 165
Lactose, respiratory excretion of hydrogen and methane after ingestion 261
Leukocytes, leukaemic and normal, differences in β-adrenergic receptor density and adenylate cyclase activity 339
Lipid-lowering diets in man, apolipoprotein B kinetics, fat consumption, dietary fatty acid composition 79
Lipogenesis, hormonal regulation in diploid fibroblasts from normals and patients with hypertriglyceridaemia 255
Liver damage, organic solvents, house painters' exposure 151
Liver disease, organic solvents, house painters' exposure 113
Liver, solvents 109
Lung lipids in fibrosis and emphysema, lipolytic activity, content and distribution of lipids 237
Mastocytosis, systemic, raised plasma levels of thromboxane B_2 227
Ménétrièr's disease, fibrinolytic activity of gastric mucosa 347
Micturition, uroflowmetric method 25
Mitral and aortic regurgitation, radionuclide quantification 325
Myocardial infarction or chronic volume overload, changes in plasma renin activity and haemodynamics during vasodilator therapy 331
Nuclear magnetic resonance spectroscopy, research and clinical diagnosis 429
Obesity, muscle morphology, metabolism, long-term physical training in women 5
Oestrogen cholestasis, increased tight junction permeability 383
Parathyroidectomy, diabetes mellitus, glucose tolerance and insulin response to glucose 373
Peptic ulcer, effect of carbenoxolone on gastric prostaglandin E_2 levels following veigal and pentagastrin stimulation 351
Plasma lipoproteins, influences of L-norgestrel and progesterone 447
Polyuria, experimental intrahepatic cholangitis, ANIT 19
Porphyria variegata, protoporphyrinogen oxidase and ferrochelatase 283
Primary ciliary dyshinesia, defective neutrophil motility 489
Prostaglandins, E_2, $F_{2\alpha}$, urinary excretion in essential hypertension 13
Quadriceps, effect of high-resistance training on strength and cross-sectional area 411
Rheumatoid arthritis, acute phase response, amyloid A degrading activity, arthroplasty 73
Respiratory failure, plasma aminoacid levels across brain 87
Respiratory tract epithelium (upper), cultured, attachment, growth, surface morphology 57
Retrograde luminal perfusion of jejunum, effect on intestinal absorption and myoelectrical activity 249
Skeletal muscle, subcellular fractionation by sucrose density gradient centrifugation 49
Skeletal muscle structure, human, investigation of composition of by X-ray computerised tomography 465
Skeletal, muscle ultrasonic tissue characterisation 469
Solvents, liver 109
Superoxide anion production by granulocytes in whole blood. Clinical test for evaluation of phagocyte function and serum opsonic capacity 363
Thrombocytopenia, digitoxin intoxication and reversal by digoxin-specific antibodies 159
Tight junction permeability, increased, possible mechanism of oestrogen cholestasis 383

Triglycerides, diurnal changes in serum, related to changes in lipolytic enzymes and (apo) lipoproteins 301
Urinary bile alcohols, gas chromatography-mass spectrometry, liver disease 91
Vasoactive intestinal polypeptide, increase in vaginal blood flow and inhibition of uterine smooth muscle activity 321
Vitamin D metabolites, post-menopausal women, myopathic electromyogram 41

Contents of Volume 13

Number 1, February 1983

Editorial: Hypoglycaemia: glucose counter-regulation, cardiovascular responses and immunoregulation
Philip E. Cryer 1

Editorial: Extracorporeal assist during fulminant hepatic failure: aims and limits?
P. Opolon 3

Relationship between muscle morphology and metabolism in obese women: the effects of long-term physical training
M. Krotkiewski, A-C. Bylund-Fallenius, J. Holm, P. Björntorp, G. Grimby and K. Mandroukas 5

The urinary excretion of prostaglandins E_2 and $F_{2\alpha}$ in essential hypertension
M. Rathaus, Z. Korzets and J. Bernheim 13

Polyuria in experimental intrahepatic cholangitis induced by alpha-naphthyl-isothiocyanate
R. Tur-Kaspa, R. Adler, M. M. Popovtzer and M. Eliakim 19

Study of micturition parameters in healthy young adults using a uroflowmetric method
P. Meunier 25

Peripheral blood cell changes in response to acute hypoglycaemia in man
B. M. Frier, R. J. M. Corrall, N. McD. Davidson, R. G. Webber, A. Dewar and E. B. French 33

Vitamin D metabolites in post-menopausal women and their relationship to the myopathic electromyogram
P. J. Heyburn, M. Peacock, I. F. Casson, R. G. Crilly and G. A. Taylor 41

Effect of ethanol on blood viscosity and erthrocyte flexibility in healthy men
M. E. Hillbom, M. Kaste, L. Tarssanen and R. Johnsson 45

Analytical subcellular fractionation of normal human skeletal muscle by sucrose density gradient centrifugation
F. C. Martin, A. J. Levi, G. Slavin and T. J. Peters 49

Cell attachment, growth characteristics and surface morphology of human upper-respiratory tract epithelium cultured on extracellular matrix
J. M. Wiesel, H. Gamiel, I. Vlodavsky, I. Gay and H. Ben-Bassat 57

Comparison of large-pore membrane haemodialysis and cross-dialysis in acute hepatic insufficiency in pigs
G. H. De Groot, S. W. Schalm, I. Schicht, P. Batavier, M. De Jonge, J. Lens and J. L. Terpstra 65

The acute phase response and its relation to amyloid A degrading activity in serum of patients with rheumatoid arthritis undergoing arthroplasty
C. P. J. Maury, A.-M. Teppo and P. Raunio 73

Modes of action of lipid-lowering diets in man: studies of apolipoprotein B kinetics in relation to fat consumption and dietary fatty acid composition
C. Cortese, Y. Levy, E. D. Janus, P. R. Turner, S. N. Rao, N. E. Miller and B. Lewis 79

Plasma aminoacid levels across the brain in patients with respiratory failure
C. Cangiano, M. O. Farber, P. Cardelli-Cangiano, L. R. Roberts, J. H. James, A. Cascino, E. M. Cockerill and F. Manfredi 87

The identification of urinary bile alcohols by gas chromatography–mass spectrometry in patients with liver disease and in healthy individuals
H. Lugwig-Köhn, H. V. Henning, A. Sziedat, D. Matthaei, G. Spiteller, J. Reiner and H.-J. Egger 91

Bile acid metabolism in hypothyroid subjects: response to substitution therapy
B. Angelin, K. Einarsson and B. Leijd 99

Instructions to Authors i

Number 2, April 1983

Editorial: Glucagon—how to prove its role in amino acid metabolism
Jens Juul Holst 107

Editorial: Solvents and the liver
Olav Axelson 109

Editorial: Study design, liver disease and house painter's exposure to organic solvents
Kari Kurppa and Harri Vainio 113

Faecal excretion of bile acids and neutral steroids on diets differing in type and amount of dietary fat in young healthy persons
J. H. Brussaard, M. B. Katan and J. G. A. J. Hautvast 115

Determination of cardiac and plasma drug levels during long-term amiodarone therapy
N. M. G. Debbas, C. Du Cailar, A. Sassine, J. Derancourt, J. G. Demaille and P. Puech 123

Clinical significance of serum hydroxyproline-containing peptides with special reference to hyproprotein
S. Yamada and C. Hirayama 129

Normal and low molecular weight heparins: interaction with human platelets
F. Fabris, F. Fussi, A. Casonato, L. Visentin, M. Randi, M. R. Smith and A. Girolami 135

Amino acids and lipoproteins in plasma of duodenopancreatectomized patients: effects of glucagon in physiological amounts
W. A. Müller, H. J. Cüppers, H. Zimmermann-Telschow, H. Micheli, T. Wyss, A. E. Renold and M. Berger 141

Liver damage associated with occupational exposure to organic solvents in house painters
M. Døssing, P. Arlien-Søborg, L. Milling Petersen and L. Ranek 151

Digitoxin intoxication with severe thrombocytopenia: reversal by digoxin-specific antibodies
T. Hess, W. Riesen, G. Scholtysik and P. Stucki 159

Human chorionic gonadotrophin and alpha chain of glycoprotein hormones in patients with inflammatory bowel disease
W. Kruis and K. Mann 165

Hydrocortisone decreases the internalization of low density lipoprotein in cultured human fibroblasts and arterial smooth muscle cells
K. Henze, A. Chait, J. J. Albers and E. L. Bierman 171

The normal occurrence of two molecular forms of the eight complement component (C8) and their concentrations in a family with C8 deficiency
I. Brandslund, B. Teisner, M. Strate, N. Grunnet, S-E. Svehag, H. Isager and P. Wang 179

Number 3, June 1983

Editorial: Acetaldehyde and aldehyde dehydrogenases—central problems in the study of alcoholism
Frank Lundquist 183

Faecal bile acid analysis and intestinal absorption in Crohn's disease before and after ileal resection
R. Fiasse, H. J. Eyssen, J. P. Leonard and Ch. Dive 185

Mechanism of hepatic bicarbonate secretion and bile acid independent bile secretion
Ø. Mathisen and M. Ræder 193

Effect of diazoxide-induced hypotension on cerebral blood flow in hypertensive rats
D. I. Barry, S. Strandgaard, D. I. Graham, O. Braendstrup, U. G. Svendsen and T. G. Bolwig 201

Immune function during ageing in man: relation between serological abnormalities and cellular immune status
H. M. Lokhorst, J. A. van der Linden, H. J. Schuurman, F. H. J. Gmelig Meyling, E. J. E. G. Bast and G. C. de Gast 209

The influence of total hepatectomy on cerebral energy state, ammonia-related amino acids on the brain and plasma amino acids in the rat
T. Holmin, C.-D. Agardh, G. Alinder, P. Herlin and B. Hultberg 215

The effects of an opiate agonist and antagonist on the human upper gastrointestinal tract
W. D. W. Rees, G. R. Sharpe, N. D. Christofides, S. R. Bloom and L. A. Turnberg 221

Raised plasma levels of thromboxane B_2 in systemic mastocytosis
R. J. T. Ouwendijk, F. J. Zijlstra, J. H. P. Wilson, I. L. Bonta, J. E. Vincent and E. Stolz 227

Plasma haemostatic factors and diabetic retinopathy
T. L. Dornan, I. L. Rhymes, S. A. Cederholm-Williams, C. R. Rizza, M. B. Pepys, A. J. Bron and R. C. Turner 231

Rabbit lung lipids in experimental fibrosis and emphysema: lipolytic activity and content and distribution of lipids
E. Rosario and P. Gonzalez-Santos 237

A variant form of X-linked chronic granulomatous disease with normal nitroblue tetrazolium slide test and cytochrome b
N. Borregaard, A. R. Cross, T. Herlin, O. T. G. Jones, A. W. Segal and N. H. Valerius 243

Effects of retrograde luminal perfusion of the canine jejunum on intestinal adsorption and myoelectrical activity
A. Mitchell, J. Collin and T. G. Denton 249

Hormonal regulation of lipogenesis in human diploid fibroblasts from normal subjects and from patients with familial hypertriglyceridaemia
C. Lemmen, G. Wolfram, C. A. Barth and N. Zöllner 255

Respiratory excretion of hydrogen and methane in Italian subjects after ingestion of lactose and milk
E. Zuccato, M. Andreoletti, A. Bozzani, F. Marcucci, P. Velio, P. Bianchi and E. Mussini 261

Decreased serum concentration of ionized calcium in insulin-dependent human diabetes mellitus
P. McNair, N. Fogh-Andersen, S. Madsbad and M. S. Christensen 267

Sympathetic nervous activity, renin-angiotensin system and renal excretion of prostaglandin E_2 in cirrhosis. Relationship to functional renal failure and sodium and water excretion
V. Arroyo, R. Planas, J. Gaya, R. Deulofeu, A. Rimola, R. M. Pérez-Ayuso, F. Rivera and J. Rodés 271

Number 4, August 1983

The making of a clinical scientist
R. H. T. Edwards 279

Protoporphyrinogen oxidase and ferrochelatase in porphyria variegata
D. J. Viljoen, R. Cummins, J. Alexopoulos and S. Kramer 283

Angiogenic and growth factors in human amnio-chorion and placenta
H. Burgos 289

Local fibrinolytic activity and its structural basis in experimental gastric ulcers
B. Stenberg, A. Bylock and B. Risberg 297

Diurnal changes in serum triglycerides as related to changes in lipolytic enzymes, (apo) lipoproteins and hormones in normal subjects on a carbohydrate-rich diet
C. Pagano Mirani-Oostdijk, L. Havekes, J. Terpstra, M. Frölick, C. M. Van Gent and H. Jansen 301

Abnormal Na^+,K^+ cotransport function in a group of patients with essential hypertension
R. P. Garay, C. Nazaret, P. Hannaert and M. Price 311

Vasoactive intestinal polypeptide (VIP) increases vaginal blood flow and inhibits uterine smooth muscle activity in women
B. Ottesen, T. Gerstenberg, H. Ulrichsen, T. Manthorpe, J. Fahrenkrug and G. Wagner 321

Radionuclide quantification of mitral and aortic regurgitation
S. C. C. Reinders Folmer, R. W. Koster, A. V. La Rivière and A. J. Dunning 325

Changes in plasma renin activity and haemodynamics during vasodilator therapy in conscious dogs with myocardial infarction or chronic volume overload
H. Pouleur, R. L. Engler, J. Link, M. P. Printz and J. W. Covell 331

Differences in β-adrenergic receptor density and adenylate cyclase activity between normal and leukaemic leukocytes
E. Paietta and J. D. Schwarzmeier 339

Fibrinolytic activity of the gastric mucosa in Ménétrièr's disease
G. Wijngaards and J. Jespersen 347

Effect of carbenoxolone on gastric prostaglandin E_2 levels in patients with peptic ulcer disease following vagal and pentagastrin stimulation
J. Rask-Madsen, K. Bukhave, P. E. R. Madsen and C. Bekker 351

Biochemical characterization of variants of the Ehlers-Danlos syndrome type VI
A. Ihme, L. Risteli, T. Krieg, J. Risteli, U. Feldmann, K. Kruse and P. K. Müller 357

The measurement of superoxide anion production by granulocytes in whole blood. A clinical test for the evaluation of phagocyte function and serum opsonic capacity
P. Bellavite, P. Dri, V. Della Bianca and M. C. Serra 363

Number 5, October 1983

Editorial: Excitation-contraction coupling of the heart
A. J. Drake-Holland and M. I. M. Noble 369

Diabetes mellitus, glucose tolerance and insulin response to glucose in patients with primary hyperparathyroidism before and after parathyroidectomy
S. Ljunghall, M. Palmér, G. Åkerström and L. Wide 373

Effects of induced hypotension on breathing pattern in halothane-anaesthetized man
B. Hannhart, D. Bertrand, R. Peslin and A. Bohadana 379

Increased tight junction permeability: a possible mechanism of oestrogen cholestasis
E. Elias, S. Iqbal, S. Knutton, A. Hickey and R. Coleman 383

Calcium malabsorption in the elderly: the effect of treatment with oral 25-hydroxyvitamin D_3
R. M. Francis, M. Peacock, J. H. Storer, A. E. J. Davies, W. B. Brown and B. E. C. Nordin 391

Hormone and metabolite profiles in alcoholic liver disease
A. Stewart, D. G. Johnston, K. G. M. M. Alberti, M. Nattrass and R. Wright 397

Endothelial cell dysfunction in homocystinuria
P. De Groot, C. Willems, G. H. J. Boers, M. D. Gonsalves, W. G. Van Aken and J. A. Van Mourik 405

The effect of high-resistance training of the strength and cross-sectional area of the human quadriceps
A. Young, M. Stokes, J. M. Round and R. H. T. Edwards 411

Free cholesterol distribution during *in vitro* lipolysis of rat plasma very low density lipoprotein: lack of a role for blood and heart cells
B-P. Perret, S. Eisenberg, T. Chajek-Shaul, R. Deckelbaum and T. Olivecrona 419

Number 6, December 1983

Editorial: Nuclear magnetic resonance spectroscopy in research and clinical diagnosis
R. H. T. Edwards, M. J. Dawson, J. R. Griffiths and R. Gordon 429

Editorial: Systemic spill-over of bile acids
G. P. van Berge-Henegouwen and A. F. Hofmann 433

Portal-systemic spill-over of bile acids: a study of mechanisms using ursodeoxycholic acid
G. Miescher, G. Paumgartner and R. Preisig 439

L-norgestrel and progesterone have different influences on plasma lipoproteins
L. Fåhraeus, U. Larsson-Cohn and L. Wallentin 447

Duodenal bulb pH in normal subjects
S. Hannibal and S. J. Rune 455

Erythrocyte uroporphyrinogen-1-synthase activity in β-thalassaemic patients
C. Lyberatos, S. Ladas, I. Ladas, G. Palikaris, M. Lazanas and S. Koutsikos 461

Investigation of human skeletal muscle structure and composition by X-ray computerised tomography
S. Gindrod, P. Tofts and R. Edwards 465

Ultrasonic tissue characterisation of skeletal muscle
E. B. Cady, J. E. Gardener and R. H. T. Edwards 469

Lack of inhibition of clomethiazole metabolism by cimetidine: model experiments in the dog
J. Z. Zeng and J. Bircher 475

Regulation of calcium-regulating hormones by exogenous sex steroids in early postmenopause
J. C. Stevenson, G. Abeyasekera, C. J. Hillyard, K-G. Phang, I. MacIntyre, S. Campbell, G. Lane, P. T. Townsend, O. Young and M. I. Whitehead 481

Defective neutrophil motility in patients with primary ciliary dyskinesia
N. H. Valerius, B. B. Knudsen and M. Pedersen 489